

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-30 (Canceled)

31. (Currently amended) A safety paper with a) a structure in the form of an electronic circuit (1, 4, 7) making possible a contactless checking of an authenticity feature, b) the circuit (1, 4, 7) comprising an electronic circuit chip and a pattern (7) connected therewith and serving as a sending/receiving antenna ~~that~~, c) the electronic circuit, in response to a received input signal, is operative to emit ~~emits~~ an output signal indicating the presence of the authenticity feature, d) the ~~and whose~~ pattern (50, 50') serving as a sending/receiving antenna ~~has the form of~~ being formed as a dipole antenna comprised of two conductor strips (50, 50') extending along a common straight line, e) which at facing ends thereof are contacted with connecting areas (70, 70') of the circuit chip (40), f) the conductor strips ~~and~~ are formed by portions of a thin insulating

polymer substrate strip that have been made conductive, ~~between~~  
~~whose~~ g) the circuit chip is positioned on an insulating portion,  
delimited between the facing ends of the conductor strips (50,  
50'), ~~the circuit chip (40) is positioned, wherein~~ h) the circuit  
chip (40) is formed on a thin-ground semiconductor substrate  
which is arranged on the insulating portion of the polymer  
substrate strip.

32. (Previously presented) A safety paper with a structure  
in the form of an electronic circuit (1, 4, 7) making possible a  
contactless checking of an authenticity feature, the circuit (1,  
4, 7) comprising an electronic circuit chip and a pattern (7)  
connected therewith and serving as a sending/receiving antenna  
that, in response to a received input signal, emits an output  
signal indicating the presence of the authenticity feature and  
whose pattern (50, 50') serving as a sending/receiving antenna  
has the form of a dipole antenna comprised of two conductor  
strips (50, 50') extending along a common straight line, which at  
facing ends thereof are contacted with connecting areas (70, 70')  
of the circuit chip (40) and are formed by portions of a thin  
insulating polymer substrate strip that have been made  
conductive, between whose insulating portion, delimited between

the facing ends of the conductor strips (50, 50'), the circuit chip (40) is positioned, wherein the structure forming the circuit (1, 4, 7) comprises an integrated polymer circuit chip (4) formed on a flexible polymer substrate.

33. (Previously presented) A safety paper with a structure in the form of an electronic circuit (1, 4, 7) making possible a contactless checking of an authenticity feature, the circuit (1, 4, 7) comprising an electronic circuit chip and a pattern (7) connected therewith and serving as a sending/receiving antenna that, in response to a received input signal, emits an output signal indicating the presence of the authenticity feature, wherein the pattern serving as a sending/receiving antenna is applied externally to the paper layer and is coupled capacitively by the paper layer, acting as a dielectric, to a remaining portion of the circuit embedded in the paper layer.

34. (Currently amended) A safety paper according claim 31 22, wherein a structure forming the circuit (1, 4, 7) comprises a read-only storage set to a predetermined information contents, whose information contents can be transmitted with the emitted output signal.

35. (Currently amended) A safety paper according to claim 31 22, wherein a structure (1, 4, 7) forming the circuit comprises a write/read storage into which information contents transmitted by the received input signal can be written whose information contents can be transmitted with the emitted output signal.

36. (Currently amended) A safety paper according to claim 35 26, wherein the write/read storage is formed by a shift register into which a binary representation of the information contents transmitted with the input signal can be sequentially stored.

37. (Currently amended) A safety paper according to claim 31 22, wherein a structure (1, 4, 7) forming the circuit comprises an energy supply which can be supplied by a contactless energy transmission.

38. (Currently amended) A safety paper according to claim 37 28, wherein energy transmission can be realized by a carrier frequency oscillation provided for modulation with the input

signal.

39. (Currently amended) A safety paper according to claim 31 22, wherein a structure forming the circuit (1, 4, 7) is embedded in a paper layer of the safety paper.

40. (Canceled)

41. (Canceled)

42. (Currently amended) A safety paper according to claim 31 22, wherein the pattern (1, 5, 5', 7, 50, 50') serving as a sending/receiving antenna is comprised of a material whose expansion coefficient corresponds substantially to the expansion coefficient of the paper layer.

43. (Currently amended) A safety paper according to claim 31 22, wherein the circuit (1, 4, 7; 40, 50, 50', 70, 70') comprises a micro controller.

44. (Currently amended) A method for checking the authenticity of documents which are recorded in an optically

readable form on a safety paper with a structure in the form of an electronic circuit making possible a contactless checking of an authenticity feature, the circuit, in response to a received input signal, emitting an output signal representing the authenticity feature, comprising transmitting an input signal by the location checking the document to the circuit which triggers the emission of its output signal and the optically readable contents of the document as well as the authenticity feature are automatically detected and correlated with one another, wherein the input signal transmitted by the checking location to the circuit comprises an information contents which identifies the checking location and is stored in the circuit, wherein the stored information contents, which identifies the checking location, can be transmitted with the output signal to a checking location in response to an input signal transmitted subsequently by the checking location.

45. (Canceled).

46. (Currently amended) A method according to claim 44 35, wherein the energy for operating the circuit is transmitted by the checking location with the input signal to the circuit.

47. (Previously presented) A method for checking the authenticity of documents recorded on safety paper which have an area provided with an authenticity feature that can be detected contactless, comprising providing the document with an electronic circuit in an area separate from the area having the authenticity feature, in which electronic circuit the authenticity feature determined by contactless detection is checked and an output signal indicating the result of checking is generated.

48. (Currently amended) A device for a contactless checking of authenticity of a document made of a safety paper, the document ~~which~~ is provided with an electronic circuit chip as well as a pattern connected thereto and serving as a sending/receiving antenna, the pattern serving as a sending/receiving antenna is ~~and~~ formed as a dipole antenna with dipole branches extending along a common straight line, ~~wherein~~ the electronic circuit chip, in response to a received input signal, ~~emits~~ is operative to emit an output signal representing the authenticity feature, the device comprising: a transport device by which the documents (100) to be checked are transported along a movement path extending transverse to the common straight

line of the dipole branches (50, 50');  $\tau$  two conductors (103, 103') extending in the transport direction (100), one of them arranged in the area of the movement path of the one dipole branch (50) and the other in the area of the movement path of the other dipole branch (50'), respectively, for capacitive coupling with the moving dipole branches (50, 50'); , and a sending/receiving device coupled with the conductors (103, 103') for emitting the input signal for the circuit chip (40) and for receiving the output signal representing the authenticity signal.

49. (Currently amended) A document made of a safety paper according to claim 31 22, wherein the circuit chip (4, 40) is arranged in an area of the document that is not printed.

50. (Currently amended) A document made of a safety paper according to claim 31 22, wherein, in an area which is remote from the area in which the electronic circuit (4, 40) is arranged, an authenticity feature is arranged that is detectable contactless and can be input into the circuit and checked therein.